Cat. No. 25-2062

Memory PLUS Expansion Adapter

Installation and Operating Instructions

TANDY

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Installation

Introduction

The Memory PLUS Expansion Adapter is readily installable by you, however, you can have the kit installed by the service technician at your Radio Shack Service Center. Having our service technicians install the kit not only ensures expert installation, but also enables them to quickly check to be sure all the equipment is functioning properly.

What You Need Before Getting Started

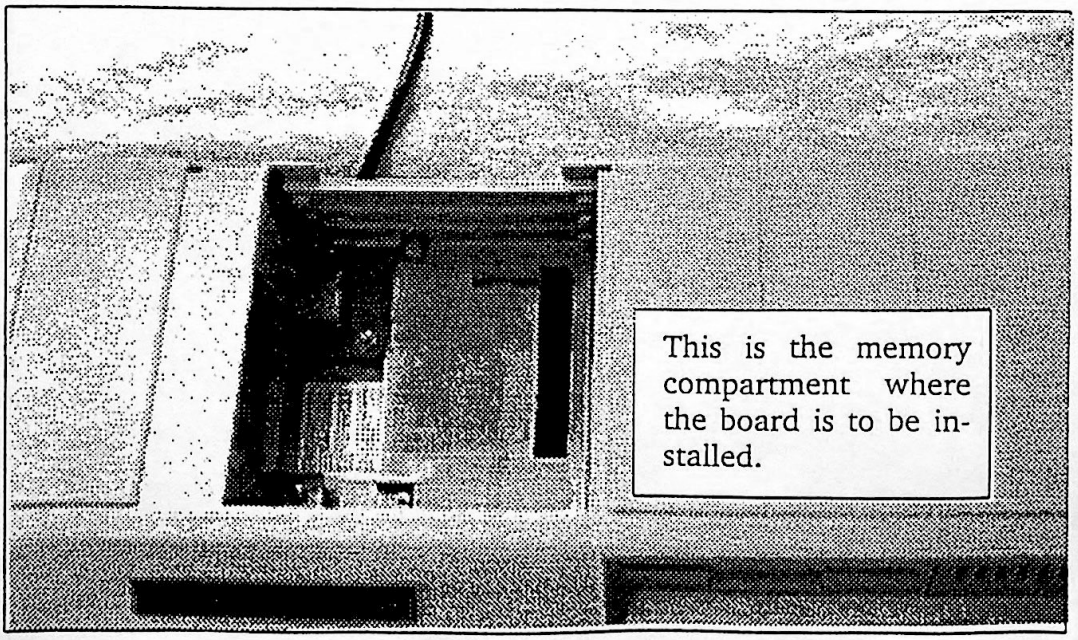
1. A Tandy 1000 EX or 1000 HX with 256K memory.
2. A Phillips screwdriver.

NOTE: Caution should be exercised in low humidity environments to prevent damage to electronic parts by static electricity being discharged through them. Discharge any built-up static electricity by touching a grounded metal object before proceeding further.

Preparing The Computer

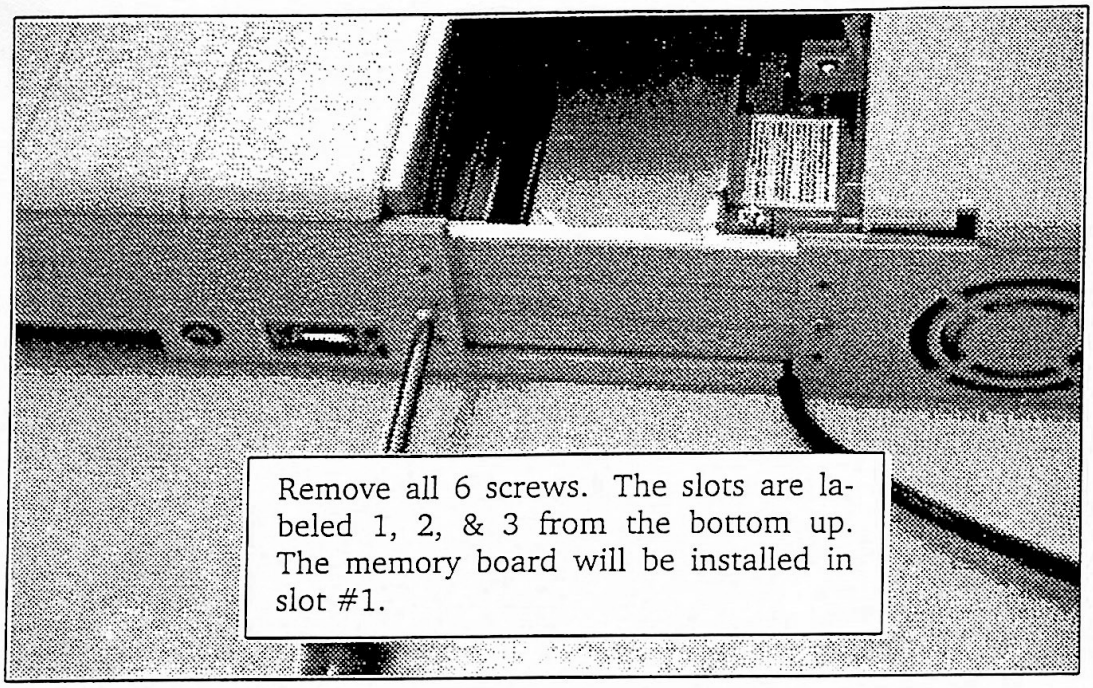
1. Turn off all equipment and disconnect the power cord from the wall socket. If the computer is on, you could damage the central processing unit (CPU), as well as your Memory PLUS Expansion Adapter.

2. Slide the memory compartment lid off of the machine. The lid is removed by sliding it toward the back of the computer.



3. If there is an option board already installed in the expansion slot on the main logic board, remove it.

4. There are three plastic spacers on the back of a Tandy 1000 EX or HX, held in place by six Phillips screws. Remove all three spacers.



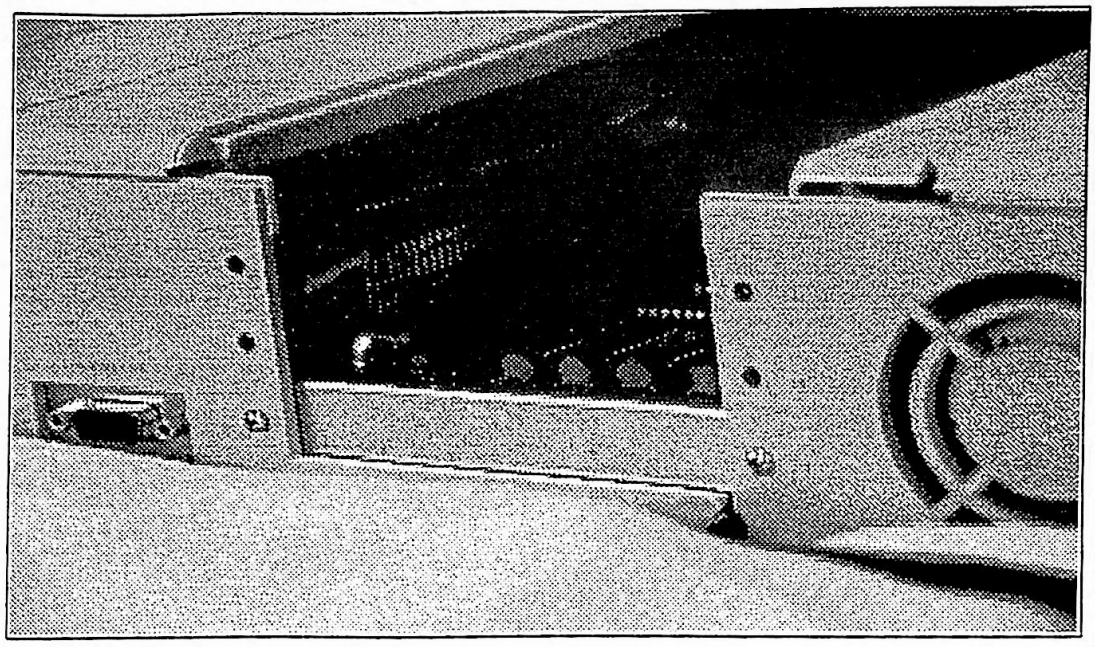
Remove all 6 screws. The slots are labeled 1, 2, & 3 from the bottom up. The memory board will be installed in slot #1.

Installing the Memory PLUS Expansion Adapter

1. The Memory PLUS Expansion Adapter must be installed in slot 1, the one directly on top of the main logic board.

2. Carefully install the Memory PLUS Expansion Adapter into the main logic board expansion slot. Slide the edge of the Adapter under the wires to the disk drive power connector. Align the pins and the connector. Press the Memory PLUS Expansion Adapter down firmly, but gently, to seat it.

Make sure the Expansion Adapter is seated properly.



3. Secure the Memory PLUS Expansion Adapter to the back of the computer with the screws in the same manner as the plastic spacers were held in place.

4. Carefully install any other option board(s) in the empty expansion slot(s) on the Memory PLUS Expansion Adapter by aligning the pins and the connector and pressing the board(s) down firmly, but gently, to seat them.

5. If you do not have any upgrade boards, then you should reinstall the plastic spacers on slots 2 and 3. The plastic spacers can be separated from each other by bending at the perforations. Secure with the Phillips screws.

6. Replace the memory compartment cover.

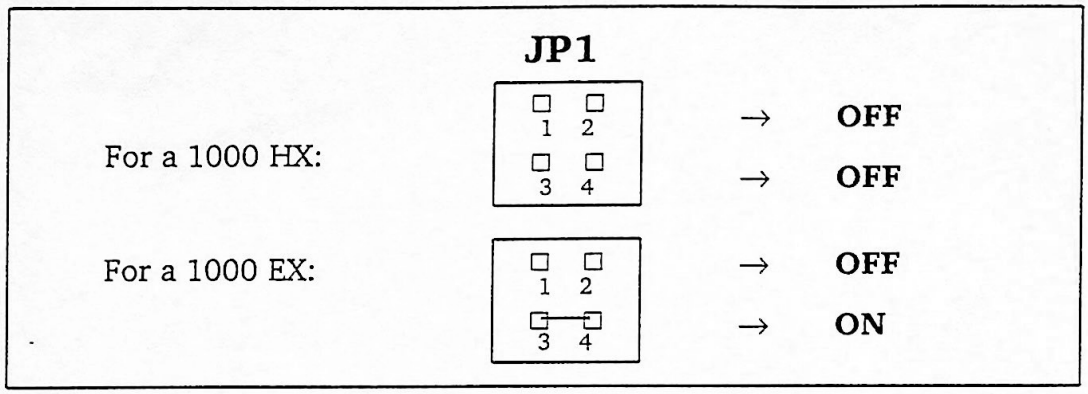
The Memory PLUS board is now ready for use!

Operation

The RAM Disk

Although the Tandy 1000 EX and Tandy 1000 HX only report 640K of memory, there is actually an additional 128K of memory on the Memory PLUS Expansion Adapter that the computer can use as a RAM disk.

- The memory board comes with the 128K of memory disabled
- To enable the 128K, you must set the JP1 jumper settings as shown here:



Installing the RAM Disk Driver (DISKMEM.SYS)

You must modify the CONFIG.SYS file on your boot disk. Refer to your DOS manuals if you need help.

1. Add this line to your CONFIG.SYS file: *DEVICE=DISKMEM.SYS*

2. Make certain you copy the file *DISKMEM.SYS* to the disk you are booting from.

3. When booting, you will get a message that the RAM disk is installed.

If you have problems with DISKMEM, disable it by placing the jumpers on the JP1 jumper block back to their original positions (both on). (This applies for both the HX and the EX.)

RAM Disk Memory Locations

Computer	Address of Memory (HEX)
1000 EX	Two 64K blocks at D0000 & E0000
1000 HX	Two 64K blocks at C0000 & D0000

Troubleshooting

If any of the following occur, remove and re-install the memory board and check for bent pins on the computer.

- Memory remains at 256K
- Computer locks at memory size 640K
- Floppy drive A: or B: doesn't work

If you are still having problems, please contact your local Radio Shack store for assistance.

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